

RE1GY-D
RESISTOR, DECADE

1. **GENERAL.** This procurement requires a decade resistor unit.
2. **CLASSIFICATION.** Type II, Class 5, Style E, and Color R in accordance with MIL-T-28800 for shipboard applications. The power source requirements are not invoked.
3. **OPERATIONAL REQUIREMENTS.** The equipment shall provide selectable resistance values within the ranges, accuracy, voltage and power handling capabilities detailed below.
 - 3.1 **Resistance range.** 1 to 1, 111, 110 ohms in 1 ohm steps.
 - 3.2 **Accuracy.** $\pm(0.02\%$ of indicated value + the zero resistance value). Zero resistance: 0.002 ohm/decade at dc.
 - 3.3 **Continuous power rating.** 0.5W.
 - 3.4 **Temperature coefficient.** ± 20 ppm/ $^{\circ}\text{C}$ maximum.
 - 3.5 **Connectors.** Three-way binding posts with 18.75 mm (3/4 in) spacing. Resistance terminals must be isolated from case. A shield terminal is required.
4. **GENERAL REQUIREMENTS.**
 - 4.1 **Weight.** 3.9 kg (8.5 lb) maximum.
 - 4.2 **Lithium batteries.** Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.